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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,150	02/17/2004	Yulun Wang	157438-0005	6067

1622 7590 06/20/2006

IRELL & MANELLA LLP  
840 NEWPORT CENTER DRIVE  
SUITE 400  
NEWPORT BEACH, CA 92660

EXAMINER
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LEYKIN, RITA

ART UNIT	PAPER NUMBER
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2837

DATE MAILED: 06/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/781,150	<b>Applicant(s)</b> WANG ET AL.	
	<b>Examiner</b> Rita Leykin	<b>Art Unit</b> 2837	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-28 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 3-6, 8-15, 17-20 and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Darling US # 6,995,664 and Baba et al. US # 6,232,735 and Braun et al. US # 6,133,944.

Darling teaches a remote supervision system for supervising and monitoring people from a remote location comprising the use of a communication system that builds upon telecommunications connections, computer interfaces, and information management via Internet. Cameras, microphones, speakers and display monitors are operatively linked to computers and information management means and used to permit a person in a remote location to view and listen to people in a plurality of active locations to verbally or visually prompt responses to inquiries or directives. The people in the active locations may also interact via these same interconnections to the person at the remote location, (see abstract).

Darling does not teach the use of a robot in such interface system. However, Baba et al. disclose a robot remote control system by which, robot apparatus can be

remotely controlled, (see abstract). The apparatus is provided with a first computer for generating control data of the robot apparatus and transmission device for transmitting control data to a public communications network. The robot image remote control processing system including:

- A remote station 1 including an image remote control portion 5, (see Fig. 3);
- A robot apparatus 2, (see Fig. 3) that comprises a head camera, earphone and microphone coupled to image selection portion;
- An interface portion 53;
- An interface portion is presented as "public communications network", that is also disclosed in applicant's specification as well known.

With respect to claims 1, 6, 11, 15, 20 and 25 the claimed limitations are shown in Braun et al. teaching. Braun et al. disclose a system 300 for combining a panning camera 308 with one or more displays 304, such as head-mounted displays (HMD). A panoramic view from an electronic panning camera may be provided to an electronic panning control circuit 510. The electronic panning control circuit may be responsive to a view selector 306, such as a head tracker located on a user's HMD, (see abstract and col. 2, lines 24-35). That reads on applicants "head worn device that generates input signal in response to movement of the head worn device". The electronic panning control circuit selects the desired portion of the panoramic view to send to user's display.

In Braun et al. teaching individually pannable views may be delivered to users via a

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communications network 312. One or more electronic panning cameras may output stereoscopic views to the communication network. In col. 2, lines 24-35 Braun et al. teach the HMD coupled with head tracking system 106 which reports the head position (and thus the gaze direction) of the user to the virtual reality rendering engine 108, (which may be a high-speed graphic computer), as in claims 3, 8, 17 and 22.

Hence, it has been obvious to one of ordinary skills in the art, at the time invention was made to use Darling teaching on video telecommunication via internet network in combination with Baba teaching on communication of remotely located station with locally installed robot station equipped with a camera and Braun et al. teaching on chosen display images to display a remote station and/or robot images.

The reason is to provide a video communication between operator's remote control station and robot locally operated station for use in medical field for supervision by physician of remote medical care process.

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2, 7, 16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Darling US # 6,995,664 Baba et al. US # 6,232,735 and Pin et al. US # 5,374,879.

The limitations of the base claims have been discussed in the rejection paragraph above. Darling and Baba et al. do not teach the use of holonomic mobile platform. However, Pin et al. teach such platform that includes wheel assembly and a support, (see title and abstract).

Hence, it has been obvious to one of ordinary skills in the art, at the time invention was made to use Pin et al. holonomic platform in Baba et al. invention to provide for robot mobility.

The reason is to achieve required movement in relation to rotational axis of the platform.

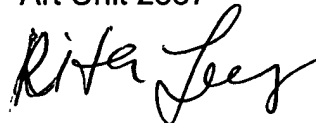
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571)272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rita Leykin  
Primary Examiner  
Art Unit 2837

A handwritten signature in black ink, appearing to read "Rita Leykin", written in a cursive style.

R.L.